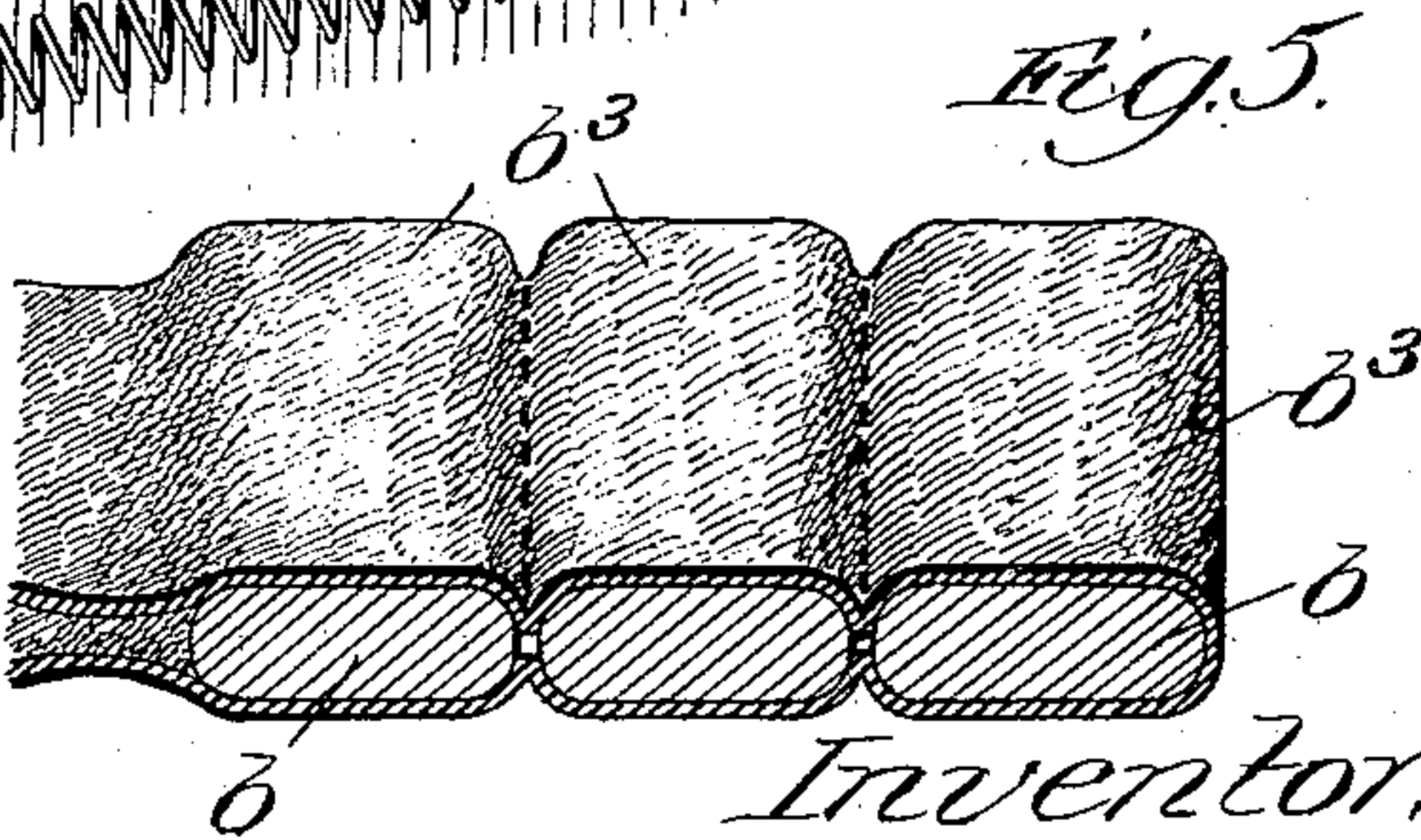
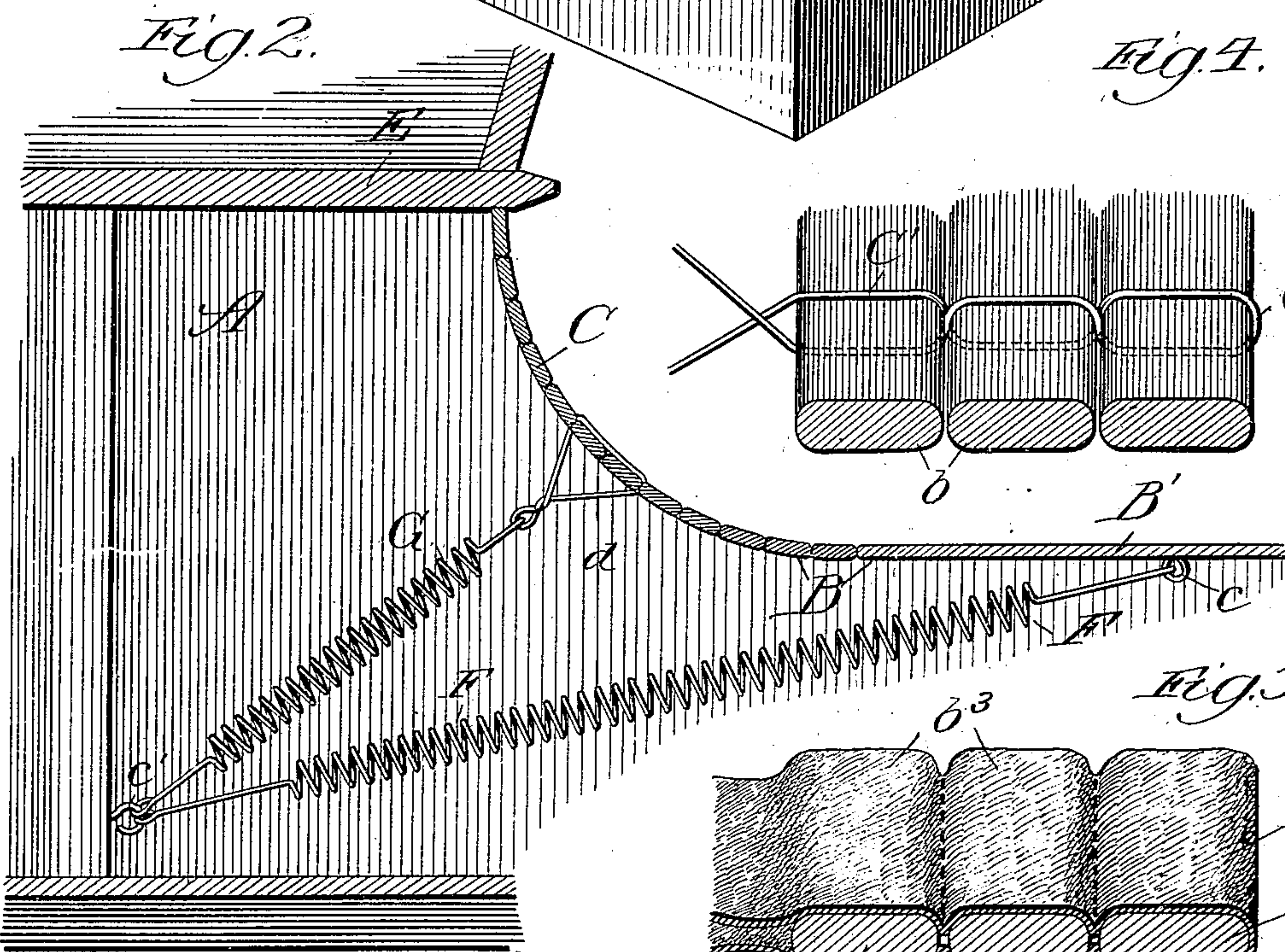
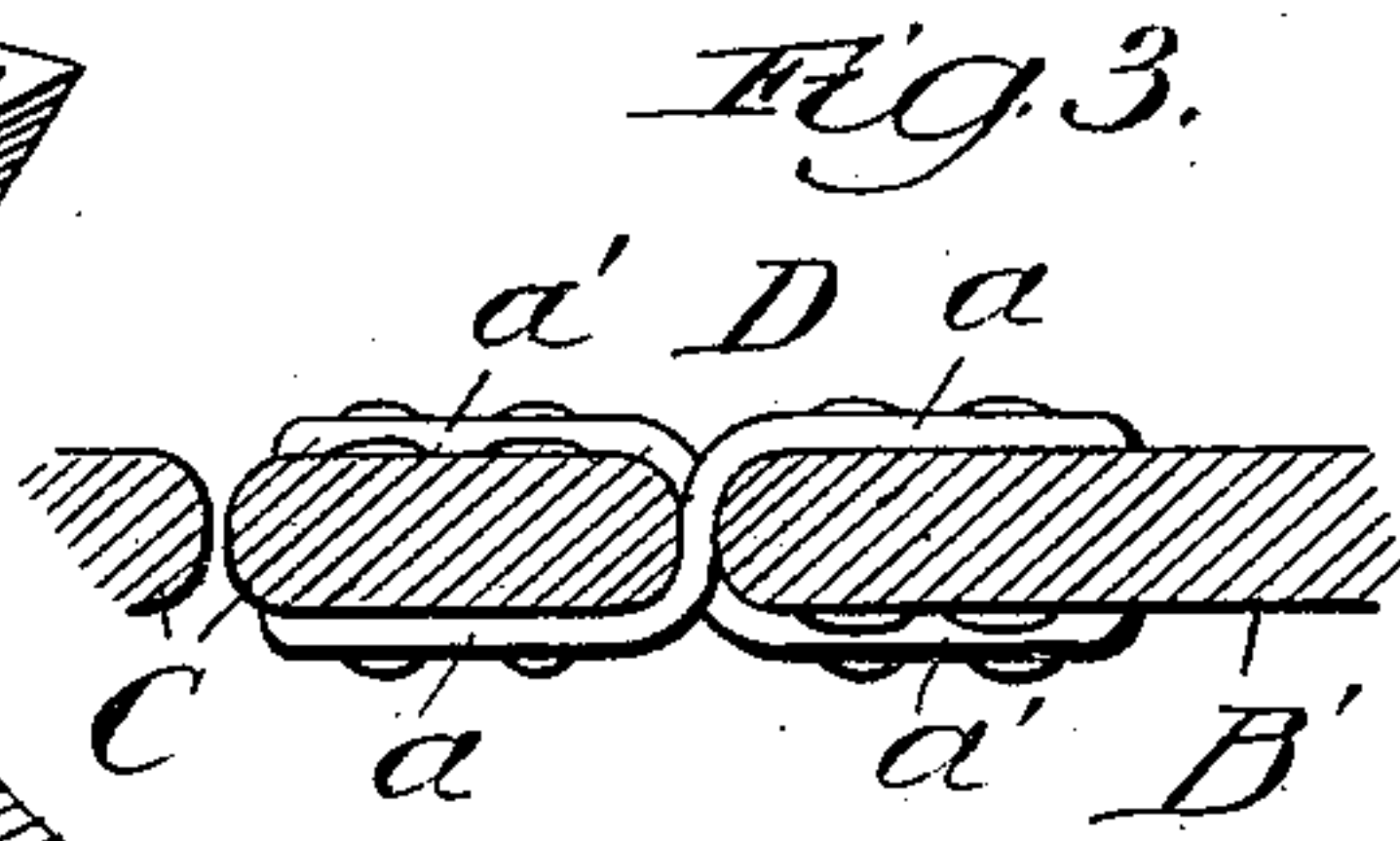
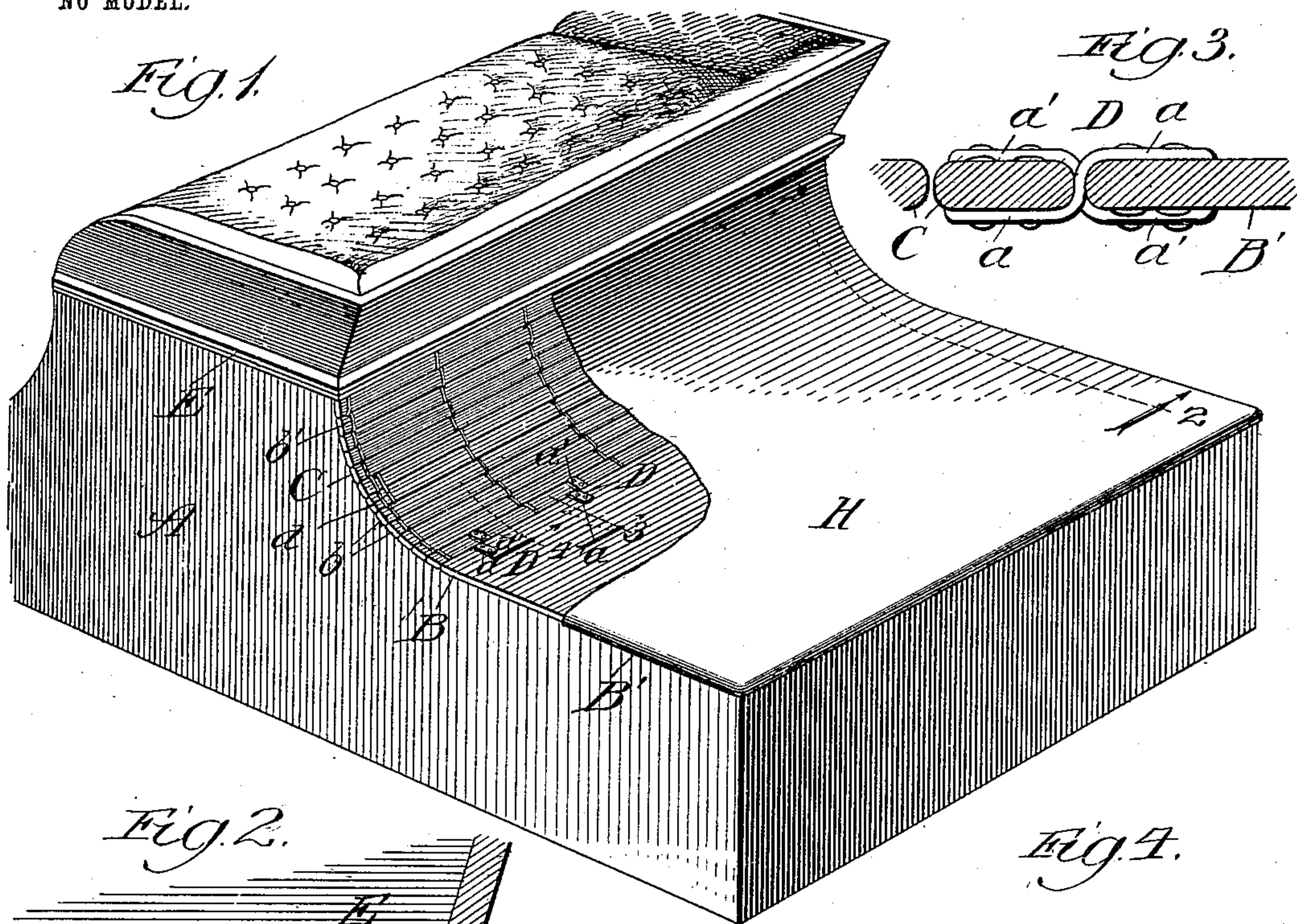


J. W. SIMMONS.

BUGGY BOOT.

APPLICATION FILED FEB. 26, 1903.

NO MODEL.



Witnesses:
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UNITED STATES PATENT OFFICE.

JAMES W. SIMMONS, OF CINCINNATI, OHIO.

BUGGY-BOOT.

SPECIFICATION forming part of Letters Patent No. 742,748, dated October 27, 1903.

Application filed February 26, 1903. Serial No. 145,152. (No model.)

To all whom it may concern:

Be it known that I, JAMES W. SIMMONS, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Buggy-Boots, of which the following is a specification.

My invention relates particularly to an improvement in the construction of that part of a buggy-boot known as the "riser" and in the manner of and means for fastening the boot in its position on a buggy-box.

The primary object of my invention is to provide a flexible riser extending from the forward edge of the boot proper, whereby it shall be adapted to conform to the shape of the edges of the sides of the buggy-box under the rear portion of the buggy-seat, and thus adapt the same boot to be applied to buggy-boxes of different shapes of the edges referred to.

A further object is to adapt the flexible riser to be yieldingly attached in place, whereby when an article longer or thicker than the length of the boot proper is required to be introduced into the buggy-box the riser may be raised one or more inches to increase the space through which to effect the introduction.

These and other objects are accomplished by my improved construction illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a buggy-box provided with my improvements and showing a portion of the boot-covering removed to disclose the construction of the riser; Fig. 2, a section taken at the line 2 on Fig. 1 viewed in the direction of the arrow and enlarged; Fig. 3, a broken section taken at the line 3 on Fig. 1 viewed in the direction of the arrow and enlarged and showing the reverse hinging of the riser to the boot proper; Fig. 4, a broken section taken at the line 4 on Fig. 1 viewed in the direction of the arrow and enlarged; and Fig. 5, a view like that presented by Fig. 4, but illustrating a modified detail construction of the flexible riser.

A denotes a buggy-box of ordinary construction, and B is my improved buggy-boot in the usual position thereon. The buggy-boot is composed of the boot proper B', which is preferably of rigid construction, as indicated in the drawings, and the riser C, ex-

tending from the forward edge of the boot proper, with which it is connected, as by hinging. It is preferred to provide a reversible hinge connection between the riser and boot proper, and the hinges D shown are formed each of two similar straps *a* and *a'*, extending in contrary directions, with corresponding ends fastened, respectively, to the upper sides of the boot proper and riser near their adjacent edges and their opposite ends fastened to the undersides thereof. The preferred general construction of the riser is that illustrated of a series of slats *b*, of proper length and width, flexibly joined edgewise together by interlaced wiring *b'* (represented in Figs. 1 and 4) or by confining the slats in the proper relation to each other in pockets *b^s*, formed by stitching cloth *b²* or other suitably flexible material, as indicated in Fig. 5.

As will be seen by the foregoing description of the construction of the riser, it will fit against and conform readily to the contour, whatever it may be, of the edges of the sides of the buggy-box below the back of the seat E, which are represented in the drawings as of regular arc shape, though they vary in shape in different buggies. I prefer to connect the riser throughout yieldingly to the buggy-box, and I also avoid any permanent rigid fastening of the buggy-boot, whereby the full advantage is afforded of the flexibility of the riser and also the boot may be adapted to be readily attached to and detached from the buggy. As the preferred means for accomplishing these objects I connect the boot proper from its under side near its opposite lateral edges by coiled springs F with the frame of the buggy-box, these springs being hooked each at one end into an eye *c* on the boot proper, whence they incline downward and are connected at their opposite ends each with a hook *c'*, provided on the box-frame. The inclination of the springs F adapts them to tend to draw the entire boot forward and hold it in place and to draw the flexible riser upward to cause it to bear at its upper edge with desired firmness underneath the rear edge of the seat. For holding the riser yieldingly against and causing it to conform to the edges of the sides of the buggy-box against which it bears I connect it from near its opposite ends at yokes *d* by spiral

springs G, inclining toward and detachably fastened at their lower ends to the hooks *e'*. The yokes *d* project from the riser into the buggy-box so close to the inner surfaces of the sides thereof as to afford stops against lateral displacement of the boot under the vibrations to which it is subjected in use, and the springs are also out of the way of obstructing the introduction of articles into the buggy-box.

By the described manner of connecting the boot to the buggy-box it may, as will be seen, be readily attached and detached by hooking in place and unhooking the springs, and the reversibly-acting hinges which connect the boot proper and the riser permit the boot proper always to assume a horizontal position, whatever the extent may be to which the riser may be distorted owing to raising it or any portion of it from its bearings by storing in the buggy-box an article or articles reaching higher than the height of the box.

The entire boot is provided, as usual, with a flexible covering H, of leather, rubber, cloth, or other suitable material impervious to moisture.

What I claim as new, and desire to secure by Letters Patent, is—

1. In combination with a buggy-box, a boot comprising a boot proper and a riser connected therewith formed of flexibly-joined sections, and a spring connection between said riser and box holding said riser in place and causing it to conform to the parts of said box against which it bears.

2. In combination with a buggy-box, a boot comprising a rigid boot proper and a riser hinged thereto formed of flexibly-joined sections, and a detachable spring connection between said riser and box holding said riser in place and causing it to conform to the parts of said box against which it is caused to bear.

3. In combination with a buggy-box, a boot comprising a rigid boot proper and a riser hinged thereto formed of flexibly-joined sections to adapt the riser to conform to the parts of the box against which it is caused to bear, and a spring connection between said boot proper and box yieldingly exerting a forward and upward strain on the boot to hold it in place.

4. In combination with a buggy-box, a boot comprising a rigid boot proper and a riser hinged thereto formed of flexibly-joined sections to adapt the riser to conform to the parts of the box against which it is caused to bear, a spring connection between said boot proper and box exerting a forward and upward strain on the boot to hold it in place, and a spring connection between said riser and box holding the riser conformably to its bearings.

5. In combination with a buggy-box, a boot comprising a rigid boot proper and a riser hinged thereto formed of flexibly-joined sections to adapt it to conform to the parts of a box against which it is caused to bear, springs detachably connecting said boot proper with the box to exert a forward and upward strain on the boot to hold it in place, and springs detachably connecting said riser with the box near its opposite sides for holding said riser conformably to its bearings.

6. In combination with a buggy-box, a boot comprising a rigid boot proper and a riser hinged thereto formed of flexibly-joined sections to adapt it to conform to the parts of a box against which it is caused to bear, springs detachably connecting said boot proper with the box near its opposite sides and exerting a forward and upward strain on the boot to hold it in place, yokes projecting from the riser adjacent to said sides and forming stops, and springs connecting said yokes with the box for holding the riser conformably to its bearings.

JAMES W. SIMMONS.

In presence of—

FLORENCE A. SMITH,
FRANK N. SIMMONS.